NOVEMBER/DECEMBER 2025

FECA54C/FECS54C/FESC54B/CECA54C/ CECS54C/CESC54B — SOFTWARE TESTING

Shanmuga Industries Arts & Science College
T.V.Malai

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write down the fundamentals of software testing.
2. What is psychology of testing?
3. Define : "Block Box Testing".
4. Write a note on dynamic testing.
5. What do you mean by decision table testing?
6. What are the objectives of path testing?
7. Write a note on test control.
8. What is cost-benefit analysis of testing?
9. Define the term "SCM".
10. State the purpose of system documentation.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) What are the characteristics of testing? Explain.

Or

(b) Distinguish between the verification and validation.

12. (a) Elaborate the spiral model with neat diagram.

Or

(b) Write down the Life cycle of testing.

13. (a) Describe the concept of slice based testing.

Or

(b) Explain the cause effect graphing technique.

14. (a) Summarize the challenges in test automation.

Or

(b) Elaborate the main functions of GUT testing.

15. (a) Distinguish between the software product quality and process quality.

Or

(b) Write down the planning for SQA.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the principles of software testing.

17. Outline the concept of Agile model with neat diagram.

18. How the boundary value analysis works? Give example.

19. Discuss the automated tools for testing.

20. Illustrate the basic principles of software quality and software quality assurance.

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